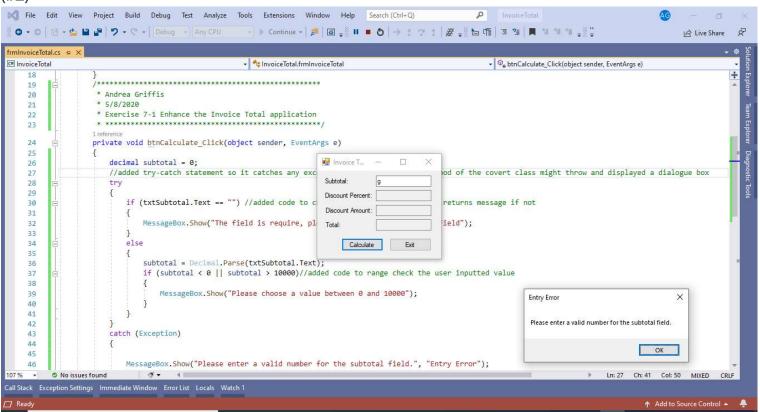
## Assignment: Week 5 Practice Assignments (Individual)

## Ex.7-1 Enhance the Invoice Total application

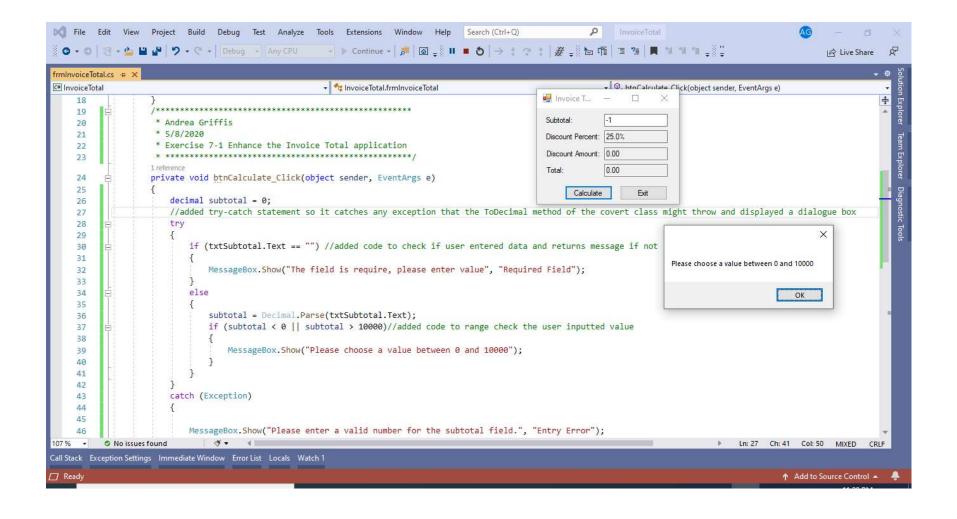
(#2)

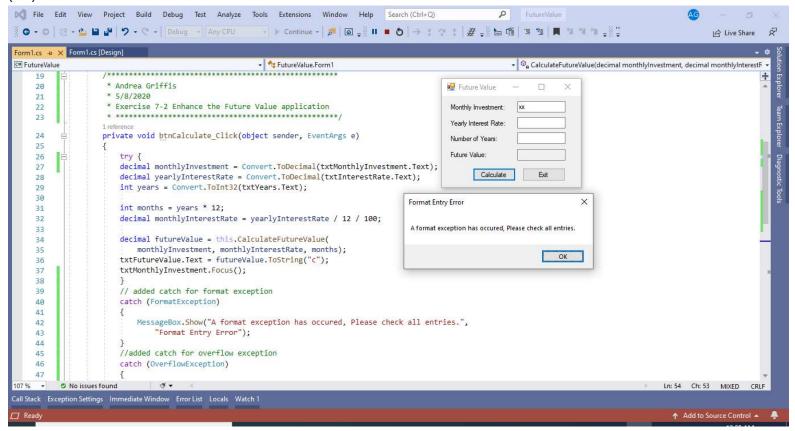


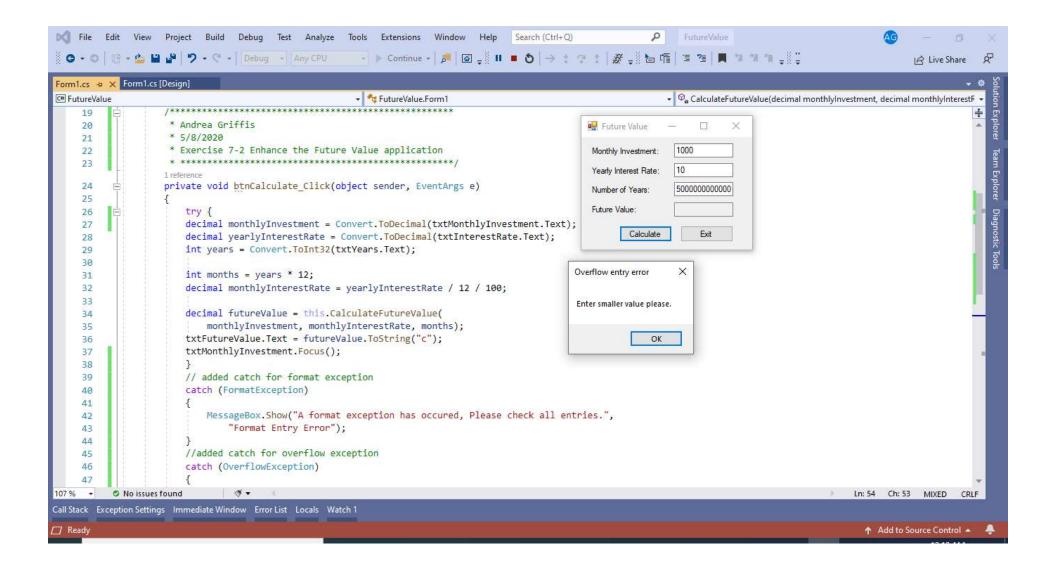
(#3)

```
Tools Extensions Window Help Search (Ctrl+Q)
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                                                                                                                                                  Live Share
frmInvoiceTotal.cs + X
                                                                                                        → □ htnCalculate Click(object sender, EventArgs e)
C# InvoiceTotal
                                                   → ¶ InvoiceTotal.frmInvoiceTotal
                                                                                             Invoice T...
                   19
                                                                                             Subtotal:
                    * Andrea Griffis
    20
                   * 5/8/2020
     21
                                                                                             Discount Percent: 25.0%
    22
                    * Exercise 7-1 Enhance the Invoice Total application
                                                                                             Discount Amount: 0.00
     23
                    0.00
     24
                   private void btnCalculate Click(object sender, EventArgs e)
     25
                                                                                                  Calculate
                      decimal subtotal = 0;
     26
                      //added try-catch statement so it catches any exception that the ToDecimal method of the covert class might throw and displayed a dialogue box
     27
     28
     29
                                                                                                                                             X
                                                                                                                    Required Field
                          if (txtSubtotal.Text == "") //added code to check if user entered data and returns message if not
     30
    31
                                                                                                                     The field is require, please enter value
     32
                             MessageBox.Show("The field is require, please enter value", "Required Field");
     33
     34
                          else
                                                                                                                                        OK
     35
                             subtotal = Decimal.Parse(txtSubtotal.Text);
     36
                             if (subtotal < 0 || subtotal > 10000)//added code to range check the user inputted value
     37
    38
                                 MessageBox.Show("Please choose a value between 0 and 10000");
     39
     40
    41
     42
                      catch (Exception)
    43
     44
     45
                          MessageBox.Show("Please enter a valid number for the subtotal field.", "Entry Error");
     46
                           Ø ▼ 4 ■
                                                                                                                             Ln: 27 Ch: 41 Col: 50 MIXED CRLF
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Call Stack Exception Settings Immediate Window Error List Locals Watch 1
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```

(#4)







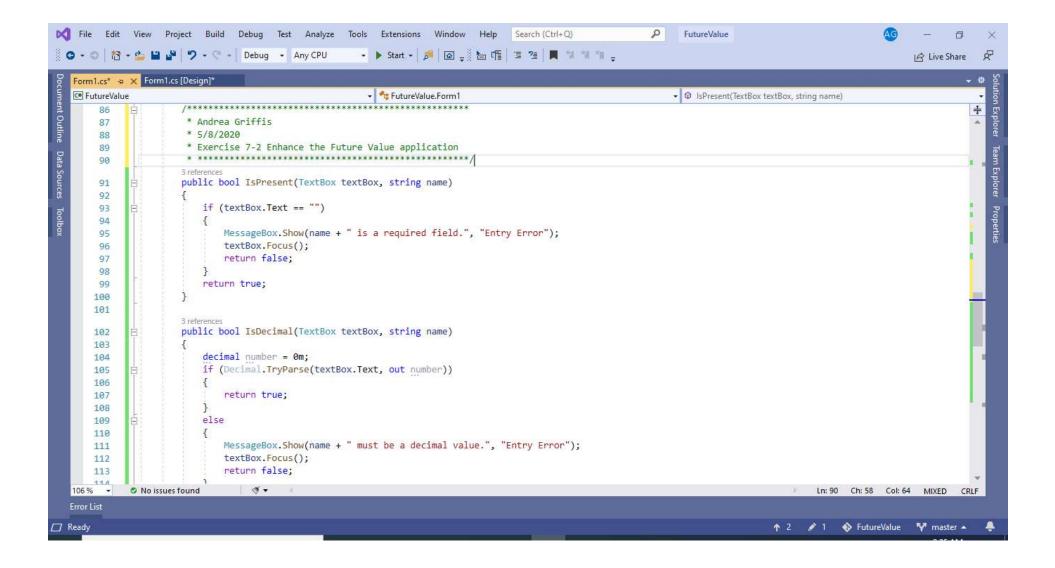
## (#3 & 4)

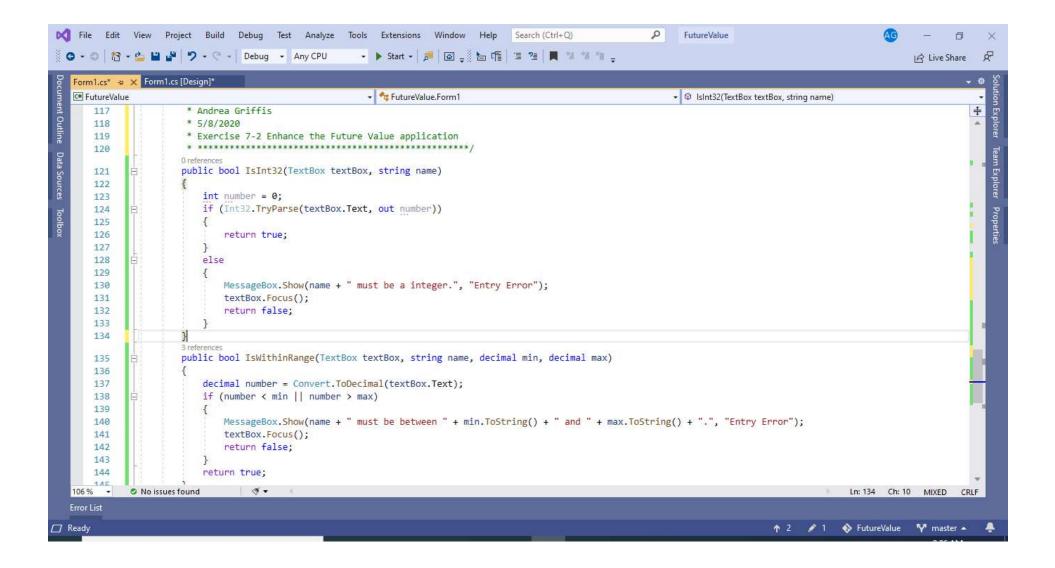
```
File Edit View Project Build Debug Test Analyze
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                                                                                                                                                             Live Share
Document Outline
    Form1.cs* + X Form1.cs [Design]
    C# FutureValue
                                                         → 👣 FutureValue.Form1

    Φ<sub>e</sub> CalculateFutureValue(decimal monthlyInvestment, decimal monthlyInteres: •

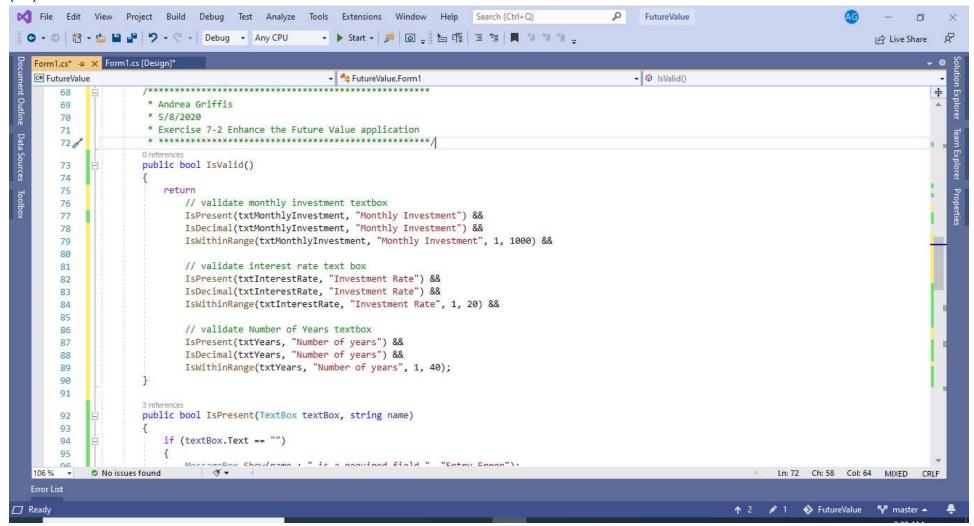
                           // added catch for overflow exception
        41
                           catch (OverflowException)
        42
        43
                               MessageBox.Show("Enter smaller value please.", "Overflow entry error");
        44
        45
                           // added catch for any other exception that may occur
        46
                           catch (Exception ex)
        47
        48
                               MessageBox.Show(ex.Message + ex.GetType().ToString() + ex.StackTrace);
        49
        50
        51
                        /********************
        52
        53
                        * Andrea Griffis
        54
                        * 5/8/2020
        55
                        * Exercise 7-2 Enhance the Future Value application
                        56
                       private decimal CalculateFutureValue(decimal monthlyInvestment,
        57
        58
                           decimal monthlyInterestRate, int months)
        59
                           decimal futureValue = 0m;
        60
        61
                           //if (monthlyInvestment <= 0) //
                           115
        62
                           11
                                 throw new Exception("Monthly Investment Amount must be more than 0");
        63
        64
                           11}
                           for (int i = 0; i < months; i++)
        65
        66
        67
                               futureValue = (futureValue + monthlyInvestment)
        68
                                           * (1 + monthlyInterestRate);
        69
                                  Ø -
              No issues found
   106 %
                                                                                                                                           Ln: 56 Ch: 58 Col: 64 MIXED
   Error List
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                                                                                                                                   ↑ 2 💉 1 🚸 FutureValue 😽 master 🔺
```

(#5)





(#6)



(#7)

```
Edit View
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                                    Debug
                                          → Any CPU
                                                                                                                                                                   Live Share
Document Outline
    Form1.cs* # X Form1.cs [Design]*
    C# FutureValue
                                                            → 👣 FutureValue.Form1

    Φ<sub>e</sub> btnCalculate_Click(object sender, EventArgs e)

                                                                                                                                                                              #
                         /*******************
         19
         20
                         * Andrea Griffis
                         * 5/8/2020
         21
         22
                         * Exercise 7-2 Enhance the Future Value application
                         * **********************************
         23
         24
                        private void btnCalculate_Click(object sender, EventArgs e)
         25
         26
                            try
         27
                                if (IsValidData()) // modified this event handder to validate data before it proccesses it
         28
         29
                                    decimal monthlyInvestment = Convert.ToDecimal(txtMonthlyInvestment.Text);
         30
                                    decimal yearlyInterestRate = Convert.ToDecimal(txtInterestRate.Text);
         31
                                    int years = Convert.ToInt32(txtYears.Text);
         32
         33
                                    int months = years * 12;
         34
         35
                                    decimal monthlyInterestRate = yearlyInterestRate / 12 / 100;
         36
         37
                                    decimal futureValue = this.CalculateFutureValue(
         38
                                        monthlyInvestment, monthlyInterestRate, months);
         39
                                    txtFutureValue.Text = futureValue.ToString("c");
                                    txtMonthlyInvestment.Focus();
         40
         41
         42
                            // added catch for format exception
         43
         44
                            catch (FormatException)
         45
         46
                                MessageBox.Show("A format exception has occured, Please check all entries.",
   106 %
               No issues found
                                                                                                                                                 Ln: 23 Ch: 58 Col: 64 MIXED
   Error List
☐ Ready
                                                                                                                                         ↑ 2 💉 1 🚸 FutureValue 😽 master 🔺
```

